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y 1964, 282-

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TOPIC TUES: statistical method accuracy, random process; correlation character—

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system

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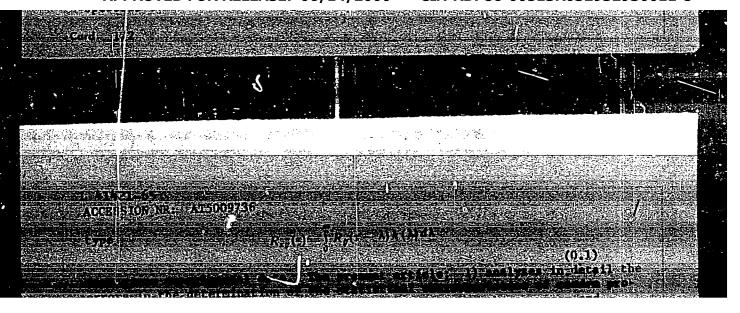
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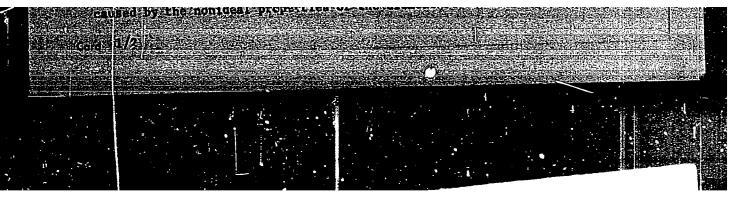
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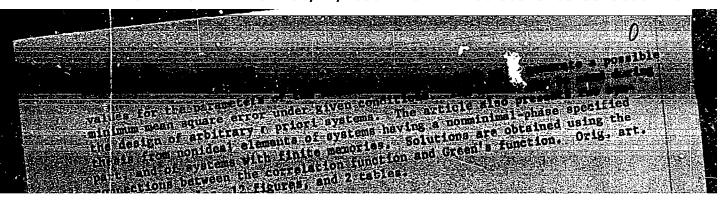
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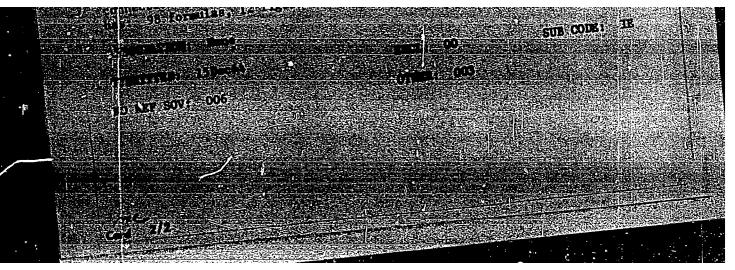
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ABSTRACT: Before one can decide whether a newly designed system should contain an adaptive reature, one must develop a method for determining the deviations an adaptive reature, one must develop a method for determining the deviations an adaptive reature, one must develop a method for determining the deviations an adaptive reature of the appropriate from the optimum operating conditions in the case of possible degrees of the system is partured that the reason optimum dynamic characteristic of the control system; the increase in the mean square error manic characteristic of the control system; the increase in the mean square error manic characteristic of the control system; the increase in the mean square error







MATVEYEV, P. T.

"Health protection in the Ukrainian SSR and the prospects of development"

report to be submitted for the United Nations Conference on the Application of Science and Technology for the Benefit of the Leas Developed Areas - Geneva, Switzerland, 4-20 Feb 63.

MATVETHV, P.Ya., inchener.

Hew low-pressure sprayer. Avt.dor.20 no.1:30-31 Ja '57.

(Fuel pumps)

(Fuel pumps)

MATVEYEV, R. F., Cand Phys-Math Sci (diss) -- "The connection between the properties of multidimensional stationary processes and the proerties of their spectral matrices". Moscow, 1959. 10 pp (Acad Sci USSR, Math Inst im V. A. Steklov), 175 copies (KL, No 10, 1960, 125)

16(1) AUTHOR: Matveyev, R.T. SOV/20-126-4-6/62 TITLE: On the Regularity of Multidimensional Stationary Random Processes With Discrete Time PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 4, pp 713-715 (USSR) ABSTRACT: Theorem: In order that the n-dimensional stationary random process  $x(t) = (x_1(t), ..., x_n(t))$  is regular with the rank m it is necessary and sufficient that:

1) the spectral functions  $F_{i,j}(\lambda)$  are absolutely continuous; 2) the rank of the matrix  $f(\lambda) = \|f_{ij}(\lambda)\|$  almost everywhere is equal to  $m(f_{ij}(\lambda) = \frac{dF_{ij}(\lambda)}{d\lambda})$ ; 3) there exists a minor  $M(\lambda)$  different from zero almost everywhere, of the order m of the matrix  $f(\lambda)$ , where  $\int_{-\pi}^{\pi} \log M(\lambda) d\lambda > -\infty;$ 4) the functions  $\theta_{ik}(\lambda) = \frac{M_{ik}(\lambda)}{M(\lambda)}$ , i=m+1,...,n; k=1,...,m, are boundary values of functions of the class N for a certain  $\delta > 0$ . Card 1/2

On the Regularity of Multidimensional Stationary Random SOV/20-126-4-6/62 Processes With Discrete Time

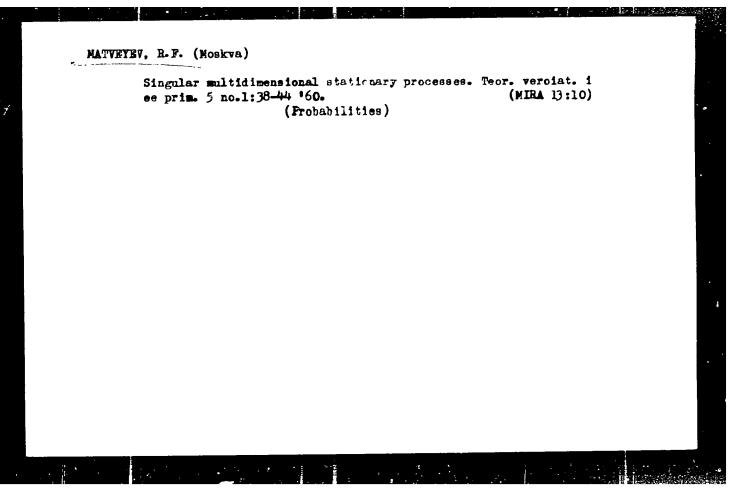
Let  $M(\lambda)$  be denoted with  $S = \|f_{pq}(\lambda)\|$ ,  $p,q=1,\ldots,m$ ;  $M_{ik}(\lambda)$  denotes the determinant of the matrix  $S_{ik}$  arising from S if the row  $f_{kp}$ ,  $p=1,\ldots,m$  is replaced by the row  $f_{ip}$ ,  $p=1,\ldots,m$ . The author uses a similar theorem of Rozanov  $\int \text{Ref } 3 \int .$  There are 5 references, 4 of which are Soviet, and 1 American.

ASSOCIATION: Matematicheskiy institut imeni V.A.Steklova Akademii nauk SSSR (Mathematical Institute imeni V.A.Steklov AS USSR)

PRESENTED: February 28, 1959, by A.N.Kolmogorov, Academician

SUBMITTED: Pebruary 15, 1959

Card 2/2



s/052/61/006/002/002/006 16.6100 25015 C111/C222

AUTHOR: Matveyev, R.F.

On regular multi-dirensional stationary processes TITLE:

PERIODICAL: Teoriya veroyatnostey i yeye primeneniye, v.6, no.2, 1961,

TEXT: Let  $x(t) = \{x_1(t), ..., x_n(t)\}$  be a stationary process, where  $M_{x_i}(t) = 0$ ,  $M[x_i(t + t)x_j(t) = B_{ij}(t)$ , where B(t) is the correlation matrix. Let  $P_{k,j}^{x}$  be the spectral measures of the process X(t) and  $f_{kj}^{x}(\lambda)$  be their derivatives. The matrix  $f_{x}(\lambda) = \|f_{kj}^{x}(\lambda)\|$  is called the spectral matrix.

Definition 1: Let the stationary process  $\chi(t)$  have the rank m if  $f_{\chi}(\lambda)$ 

almost everywhere has the rank m. Definition 2 : A function f(z) analytic in a region D of the complex plane belongs to the class H > 0 in D if the subharmonic function |f(z)|in D has a harmonic majorant.

Definition 4 : A function g(z) analytic in the lower halfplane belongs to the class No if  $g(z) = f_1(z)/f_2(z)$ , where  $f_1$  and  $f_2$  are functions Card 1/5

25015 S/052/61/006/002/002/006
On regular multi-dimensional ... C111/C222

of the class H in the lower halfplane.

Theorem is Necessary and sufficient that the stationary process  $\mathbf{z}(t)$  of the rank m is regular, is:

(I) There exists a principal minor  $M(\lambda)$  of the order m of  $f(\lambda)$  so that it holds

$$\int_{-\infty}^{\infty} \frac{\log M(\lambda)}{1 + \lambda^2} d\lambda > -\infty$$
 (5)

(e.g.:  $M(\lambda) = \| f_{kl}^{x}(\lambda) \|$ ;  $k, l = \overline{1,m}$ ).

(II) The functions

$$\Theta_{ik}(\lambda) = M_{ik}(\lambda)/M(\lambda) ; i = \overline{m+1,n} ; k = \overline{1,m}$$
 (6)

(where  $M_{ik}$  are determinants of matrices arising from M by replacing the k-th row  $\{f_{k1}^{\mathbf{x}}(\lambda), \dots, f_{kn}^{\mathbf{x}}(\lambda)\}$  by the row  $\{f_{i}^{\mathbf{x}}(\lambda), \dots, f_{in}^{\mathbf{x}}(\lambda)\}$  are limit values of functions  $\boldsymbol{\theta}_{ik}(\mathbf{z})$  ( $\mathbf{0}_{ik}(\lambda) = \lim_{\lambda \to 0} \boldsymbol{\theta}_{ik}(\lambda - i \mu)$  of the class Card 2/5

On regular smlti-dimensional

S/052/61/006/002/002/006 C111/C222

If for a certain  $\delta > 0$ . Then the author considers the problem of the linear extrapolation for processes of the rank 1. The problem is solved for processes with a discrete time in (Ref. 10 : Yu.A. Rozanov, Lineynaya ekstrapolyatsiya mnogomernykh statsionarnykh protsessov ranga 1 s diskretnym vremenem [Linear extrapolation of multidimensional stationary processes of the rank 1 with a discrete time], DAN SSSR 125,2 (1959), 277 -280). The author uses the idea of (Ref. 10) and constructs an analogous solution of the problem for the case of a continuous time. Here the author essentially uses the representation

essentially uses the representation  $x_{j}(t) = \begin{cases} e^{it\lambda} & \varphi_{j}(\lambda)d\beta(\lambda) = \int_{-\infty}^{t} c_{j}(t-p)dr(p) & (j=1,n) \end{cases} (20)$ 

of (Ref. 7: Ye.G. Gladysrev, 0 mnogomernykh statsionarnykh sluchaynykh protsessakh [On multidimensional stationary random processes] Teoriya veroyat i yeye primen., II, 4 (1958), 458-462). Here c<sub>1</sub>(t), r(p) - - Fourier transforms of  $\varphi_{\frac{1}{2}}(\lambda)$ ,  $\beta(\lambda)$ ;  $\beta(\lambda)$  is a process with non-correlated increases, where  $M\{\{\lambda,\lambda\}\}$  =  $\mu(\Lambda_1\cap\Lambda_2)$ ,  $\mu(\cdot)$ 

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is a Lebesgue measure ; the  $\psi_{j}(\lambda)$  satisfy the system

$$|\varphi_{1}(\lambda)|^{2} = f_{11}^{x}(\lambda) ,$$

$$\varphi_{2}(\lambda) = \frac{f_{21}^{x}(\lambda)}{f_{11}^{x}(\lambda)} \varphi_{1}(\lambda) ,$$

$$\varphi_{n}(\lambda) = \frac{f_{n1}^{x}(\lambda)}{f_{11}^{x}(\lambda)} \varphi_{1}(\lambda)$$

$$(21)$$

Besides the  $\varphi_j(\lambda)$  are limit values of certain functions  $\Gamma_j(\lambda-i\,\mu)$  for  $\mu\to 0$ . The extrapolation problem is reduced to the determination of a solution  $(\Psi_1(\lambda),\ldots,\Psi_n(\lambda))$  of (21) so that for every other solution  $\widehat{\psi}_1(\lambda),\ldots,\widehat{\psi}_n(\lambda)$  of (21) it holds  $|\Gamma_j(z)|\geqslant |\widehat{\Gamma}_j(z)|$ ; Im z<0, j=1,n.

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Finally the author considers a multidimensional process of the rank 1 the spectral matrix of which consists of rational functions. In this case the extrapolation problem can be solved in another manner as before where the process r(p) is determined effectively.

The author mentions A.N. Kolmogorov, V.N. Zasukhin, Yu.A. Rozanov, A.M. Yaglom.

There are 11 Soviet-bloc and 3 non-Soviet-bloc references. The reference to the English-language publication reads as follows: H. Cramer. On the theory of stationary random processes, Ann. Math., 41 (1940), 215-230.

SUBMITTED: July 23 1959

Card 5/5

9,1300

<sup>2487h</sup> S/109/61/006/007/014/020 D262/D306

AUTHOR:

Mutveyov, R.F.

TITLE:

Evaluation of the subsidiary wave in a long waveguide

PERIODICAL: Radioteklimika i elektronika, v. 6, no. 7, 1961,

1157 - 1164

TEXT: In the propagation of an H<sub>ol</sub> mode in a waveguide, parasitic modes are formed, at the waveguide inhomogeneities. Some of these waves maj again revert to the original mode propagated in the same direction as the wave carrying the information, being shifted in phase with respect to the original. They constitute what is known as the "side stream" - a subsidiary wave, which distorts the useful signal. In the present article the author gives the mathematical analysis of suchawave as resulting from the transmission of pulses through a long waveguide. If the power of the subsidiary wave is small compared with that of the signal then it can be assumed. that the subsidiary wave is formed from two transformations: ori-Card 1/9

Evaluation of the subsidiary ...

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ginal wave-parasitic wave - original wave and of most importance for evaluating the subsidiary wave is the quantity dq(z) - the ratio of the amplitude of the parasitic wave, formed at a small wave-amplitude of the original wave at point z. Another notation is as (z, -cylindrical coordinates),  $a_0$  - the mean value of a(z, 0);

$$q_{p}(z) = \frac{1}{\epsilon_{p}a_{0}\pi} \int_{0}^{2\pi} \left[a\left(z,\theta\right) - a_{0}\right] e^{ip\theta} d\theta,$$

where  $\varepsilon_0 = 2$ ;  $\varepsilon_p = 1$  for p > 0. The function  $q_p(z)$  is the sum

$$q_{p}(z) = q_{1p}(z) + q_{2p}(z),$$

where  $q_{1p}(z)$  - a continuous function;  $q_{2p}(z)$  a step function, with steps at points  $z_1$ ,  $z_2$  ... of contact of two wave guides. If there are no waveguide joints then  $q_{2p}(z) = 0$  and if the wave is of the Card 2/9

Evaluation of the subsidiary ...

S/109/61/006/007/014<mark>/020</mark> D262/D366

 $H_{pm}$  mode then dq(z) is given by

$$dq(z) = c_1(p, m) dq_{1p}(z) + c_2(p, m) dq_{2p}(z),$$
 (1)

where c<sub>1</sub> and c<sub>2</sub> are constants which depend only on the modes of parasitic waves as shown by B.Z. Katsenelenbaum and V.V. Malin (Ref. 2: Radiotekhnika i elektronika, 1958, 3, 6, 750). Further in the article indices m and p are omnitted. It is assumed further that q<sub>1</sub>(z) is a stationary random gaussian process having correlation

function  $\sigma_1^2 B(z)[B(o)=1]$  and that steps  $dq_2(z)$  at discrete points are independent and similarly distributed random quantities having dispersions equal to  $\sigma_2^2$ . It is also assumed that quantities  $dq_1(x)$  and  $dq_2(y)$  are independent for any x and y. Also following V.I. Buminovich and V.A. Morozov (Ref. 1: Radiotekhnika i elektronika, Card 3/9

Evaluation of the Subsidiary ...

S/109/61/006/007/014/020 D2*6*2/D306

1959, 4, 10, 1585) it is assumed that the lumped inhomogeneities are at a distance L +  $\eta$ ; from each other ( $j=1,2\ldots$ ), L being the mean length of the guide,  $\eta_j$  - random independent quantities evenly distributed along a section ( $-\delta$ ,  $\delta$ ) and  $\delta/L\ll 1$ . Let  $E_n$  (z, t) be the field strength of the subsidiary wave at point z of the waveguide and  $E_0(z)$  that of the original wave carrying the information. Then, assuming the notation and the mechanism of formation of subsidiary wave as given by Bumimovich and Morozov (Ref. 1: Op.cit.) and that the useful signal consists of a multitude of random following rectangular pulses of duration  $\tau$  and equal spacing, the subsidiary wave can be represented as the sum

$$E_{n}(z, t) = E_{0}(z) \sum_{k} \varepsilon_{k} \int_{0}^{z} dq (x) \int_{x}^{z} \chi_{[0,\tau]} \left( t - k\tau - \frac{z}{v_{1}} - \theta (y - x) \right) \times e^{-\beta_{1}(y-x)} \cos \left[ \omega t - \varphi_{k} - \beta_{2} (y - x) \right] dq (y)$$

$$(2)$$

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Evaluation of the subsidiary ...

(the k-th term represents the subsidiary wave formed by the transmission along the line of the k-th pulse). In this equation  $\hat{\mu}_1 = \alpha_n - \alpha_1$ ;  $\alpha_n \alpha_1$  - attenuation factors of the amplitudes of the parasitic and basic waves respectively;  $\hat{\mu}_2 = h_n - h_1$ ;  $h_n$ ,  $h_1$  - their respective phase one sats;  $\hat{\epsilon} = \frac{1}{v_n} - \frac{1}{v_1}$ ;  $v_n$ ,  $v_1$  - their respective group velocities,  $\hat{\tau}_k$  - the initial phase of the k-th pulse,  $\omega$  carrier frequency

 $\chi_{[0, \tau]}(t) = \begin{cases} 1 & \text{for } t \in (0, \tau), \\ 0 & \text{for } t \in (0, \tau); \end{cases}$ 

& - independent with respect to each other's random quantities equal to unity with probability p and to zero with probability/l-p. The average losses for transforming the wave at distributed inhomogeneities are finally determined by

Card 5/9

S/109/61/006/007/014/020 D262/D306

Evaluation of the subsidiary ...

$$\sigma_1^2 \mid \hat{c}_1 \mid^2 \mathbb{A}^r \mid \sqrt{q_1(x) e^{-i\alpha_{ij}}} \, dx \mid^2 = 23_2^2 (c_1 \sigma_1)^2 \sqrt{(z-x) B(x) \cos \beta_2 x dx}.$$

so that the everage attenuation coefficient of the original wave introduced by spurious mayed is

$$\frac{(c_2 s_k)^2}{L} + 2\beta_2^2 (c_1 s_1)^2 \int_0^\infty B(t) \cos \beta_2 t dt = \gamma_1.$$

the same formula was obtained in a different way by N. Larsen (Ref. 6: Frequenz, 1960. 14, 4, 135). The presence of the additional factor  $\gamma_2$  is due to the intermittent character of signal transmission. Katsenelenbaum and Rozanov (Ref. 2: Op.cit.) obtained

$$\frac{p_n(s)}{p_0(s)} = \frac{ps\gamma_1^2}{2\beta_1}. (12)$$

for the ratio of the subsidiary wave power to that of the signal. Card 6/9

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Evaluation of the subsidiary ...

The results of the present work show however that the above formula should in fact to changed to that of

$$\frac{2z_{1}(z)}{z_{2}(z)} = \frac{zz_{2}}{z_{2}z_{1}} (\gamma_{1}^{2} + \gamma_{2}^{2}). \qquad (13)$$

On the other hand the evel, then of the subsidiary wave is made much easier using Eq. (12) that Eq. (13) provided  $\gamma_1/\gamma_2>$  1. This condition is given as

$$\frac{31}{7z} = \frac{3_{2} \int_{0}^{B} B(t) \cos \beta_{2} t dt}{3_{1} \tau \left[1 - 3_{2} \int_{0}^{B} B(t) \sin \beta_{2} t dt\right]}.$$
(14)

which for  $\beta_2$   $z_c \to 0$  tends to zero as well for any correlation function. It is thought that a random process  $q_1(z)$  having a corcard 7/9

S/109/61/006/007/014/020 D262/D306

relation function as in

Evaluation of the subsidiary ...

$$f(\omega) = \int_{0}^{c_{0}} B(z) \cos \omega z dz = \frac{z_{c}}{[1 - (\omega_{0} - \omega)^{2} z_{c}^{2}]^{2}} + \frac{z_{c}}{[1 + (\omega_{0} + \omega)^{2} z_{c}^{2}]^{2}}.$$
 (16)

determines the line inhomogeneities much better as compared with processes having the correlation functions

$$- \left(\frac{z}{z_{c}}\right)^{2}$$

$$B(z) = e$$

of B(z) =  $\sin\Omega z/\Omega z$ . The graphs are given of the ratio  $\gamma_1/\gamma_2$  as a function of  $\omega_0/\beta_2$  with  $q=\beta_2$   $z_c$  as parameter. Under the following assumptions  $q_1(z)=q_{11}(z); m=2_c$  so that the spurious wave is introduced by a  $H_{12}$  mode; waveguide diameter 60 mm; wavelength 8 mm;  $\tau=5\cdot 10^{-9}$  sec so that  $\beta_2=0.1$  cm<sup>-1</sup>;  $\beta_1=0.283\cdot 10^{-5}$  Card 8/9

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S/109/61/006/007/014/02C D262/D306

Evaluation of the subsidiary ...

 $cm^{-1}$ ;  $\theta = 45 \cdot 10^{-14} sec/cm$ ; and assuming Eqs.

cm<sup>-1</sup>; 
$$\theta = 45 \cdot 10^{-1}$$
 sec/cm; and assuming Eqs.  
I.  $\beta_1 z \gg 1$ , II.  $\beta_1 z_c \ll 1$ , III.  $\frac{z \cdot 3}{\tau} \gg 1$ , IV.  $\frac{z_c \theta}{\tau} \ll 1$ ,

$$v. \frac{\beta_1^2 z^2}{L} < 1;$$

5 km  $\ll$  z  $\ll$  50,000 km; z  $_{\rm c} \ll$  100 m;  $\gamma_1/\gamma_2$  becomes less than unity for q  $\ll$  0.07. There are a figure and 6 references: 5 Soviet-cloc and 1 non-Soviet-bloc.

SUBMITTED: August 27, 1960

Card 9/9

\$/052/62/007/002/005/005 C111/C222

AUTHOR:

Matveyev, R.F.

TITLE:

On the question concerning the filtration of stationary processes

PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, v.7, no. 2, 1962, 220-222

TEXT: Let the stationary process  $x(t) = \int_{-\infty}^{\infty} e^{it\lambda} dZ(\lambda)$  have the

spectral density  $f(\lambda) = |B(\lambda)|^2 / A(\lambda)|^2$ , where  $A(\lambda)$  and  $B(\lambda)$  are polynomials of degrees n and m (m<n) with roots in the upper half plane. Let  $\Delta r(t)$  be the Fourier transform of  $dZ(\lambda)/\phi(\lambda)$ , where  $\varphi(\lambda) = B(\lambda)D(\lambda)/A(\lambda)D(\lambda)$ ,  $D(\lambda)$  a polynomial of degree 1 with roots in the upper half plane and 1 runs through all natural numbers. Let  $H^X(t)$  and  $H^X(t)$  be the closed linear hulls of the random variables  $\{x(T); T \leq t\}$  and  $\{\Delta_p r(T); T \leq t; p>0\}$  and let  $H^0(t)$  be the

Card 1/2

On the question concerning ...

5/052/62/007/002/005/005 C111/C222

closed linear hull of all spaces H $^{\alpha}$ (t), where dr(p) corresponds to all possible representations of  $\Psi(\lambda)$  as above, and H $^{\alpha}$  the closed linear hull of all spaces H $^{\alpha}$ (t) (-  $\infty < t < \infty$ ). The author investigates the properties of the spaces H $^{\alpha}$ r(t) and proves

Theorem:  $H^{O}(t) = H^{X}$ .

SUBMITTED: August 24, 1960

Card 2/2

S/109/62/007/008/003/015 D409/D301

6.9700

AUTHOR:

Matveyev, R.F.

TITLE:

Dependence of the probability of distortion (due to Gaussian noise) of pulse-code modulation signals on the number of regenerators, in the case of large

signal-to-noise ratios

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 8, 1962,

1294-1301

TEXT: The distortion probability in a transmission line, consisting of n amplifying circuits, is estimated. First, it is assumed that the regenerative amplifiers are ideal. The distortion probability  $Y_n$  is defined as the sum of the probability of receiving a pulse at the end of the line, instead of the space transmitted, and of the probability of receiving a space, instead of the pulse transmitted. It is stipulated that the n-th regenerative amplifier records a pulse if the voltage of the signal envelope exceeds the value  $\theta_n E_{mean}$ , where  $E_{mean}$  is the mean amplitude of the pulse; the

Card (1/3)

\*liniya svyazi : communication circuit

S/109/62/007/008/003/015 D409/D301

Dependence of the probability ...

parameter  $\theta_n$  is called the optimal limiting-level; it is determined from the minimum condition of  $Y_n$ . Formulas are derived, expressing  $Y_n$  in terms of the line characteristics. This involves the derivation of recursion formulas for the probability-densities  $W_{2k}$  (k=1, ...) of the signal-envelope voltages at the input of the k-th regenerative amplifier. After calculations, one obtains for  $Y_n$ :

 $Y_n = \sqrt{p(1-p)} \left\{1 - \left[1 - \frac{1.5}{\sqrt{q}} e^{-\frac{q^2}{8}}\right]^n\right\};$  (8')

p denotes the probability of transmitting a pulse,  $q = \frac{E_{mean}/\sigma}{(\sigma \text{ is the variance})}$ . If  $n \ll eq^2/8$ , one obtains the formula

$$Y_n \simeq n \sqrt{p(1-p)} \frac{1.5}{\sqrt{q}} e^{-\frac{q^2}{8}}$$
.

Further, the case of non-ideal regenerative amplifiers is considered. After calculations one obtains Card 2/3

Dependence of the probability ...

S/109/62/007/008/003/015 D409/D301

$$\frac{Y_k - Y_{k-1} - Y_1}{Y_1} = \frac{q^4}{32} c_1^{(k)} + \frac{q^2}{8} c_2^{(k)}, \qquad (14)$$

where  $c_1$  and  $c_2$  are constants which represent increments to the mean noise-power, due to the non-ideal character of the regenerative amplifier. The conditions are ascertained, under which  $\theta_k$  (the optimal limiting-level) is practically independent of k (the number of the regenerative amplifier); these conditions are determined for both the ideal- and non-ideal case. The use of formula (14) is illustrated by an exemple.

SUBMITTED:

November 14, 1961

Card 3/3

h211h

**S/109/62/007/010/001/012** \*\* **D271/D308** 

AUTHOR:

Matveyev, R.F.

TITLE:

Probability of distortion of pulse-code modulated sig-

nals caused by some non-gaussian noises

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 10, 1962,

1703 - 1710

TEXT: Transaission of nanosecond p.c.m. pulses in a waveguide transmission line is considered and the probability is calculated of false signal detection because of joint effect of gaussian noise and dispersional distortion. The regenerator at the output end of the line produces pulses when the signal voltage envelope, at the center of the elementary message, exceeds a certain base level. The optimal level must be found from the condition of least probable false detection. Nanosecond pulses are subjected to substantial distortion due to the nonlinear relationship between the propagation constant and frequency, the pulse width increases and it may distort the adjacent message. Output voltage equations for all possible combinations of a message and its two neighbors, and for the probabilicard 1/2

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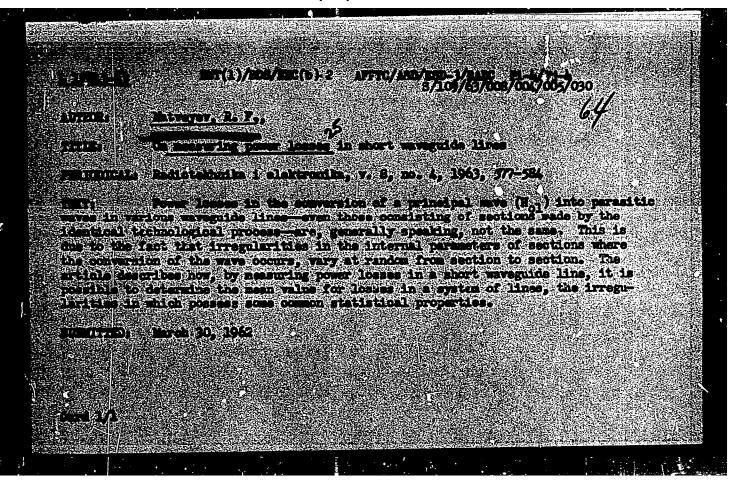
S/109/62/007/010/001/012 D2071/D308

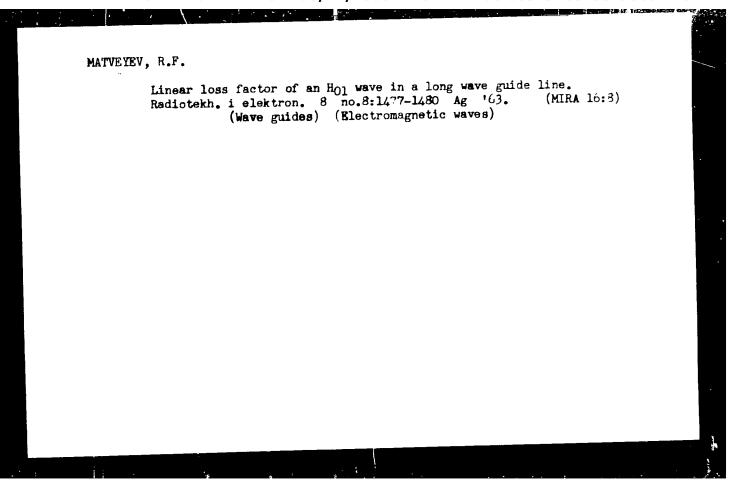
Probability of distortion of ...

ty of false detection are formulated. Expressions are derived for the density of probability function of signal envelope in all possible combinations, and simplified, assuming that noise is very small in comparison with the signal. The final expression relates the probability of error with a certain base level to the amplitude of pulse in the central point of its duration, to its dispersion, to the amplitude of the previous pulse at the considered instant, and to the probability of marks on both sides of the considered message. Graphs of optimal level of operation are given in function of the pulse amplitude and of the encroaching amplitude of the adjacent pulse. Error probability is greater than 0.001 when the ratio of the encroaching to the legitimate amplitude is 0.2. E.A. Marcatili's paper (Bell System Techn. J., v. 40, 1961, no. 3, 921) is criticized for insufficiency of exactitude in calculating density of probability distribution.

SUBMITTED: November 14, 1961

Card 2/2





ACCESSION NR: AP4040748

S/0142/64/007/002/0154/0163

AUTHOR: Kozelev, A. I.; Matveyev, R. F.

TITLE: Use of a pulse sequence to measure the loss of the  ${\rm H}_{01}$  mode in a multimode waveguide

SOUPCE: IVUZ. Radiotekhnika, v. 7, no. 2, 1964, 154-163

MOPIC TAGS: waveguide propagation, waveguide loss, line loss, microwave technology, measuring apparatus

ABSTRACT: The method is neither new nor unknown (it is described, for example, by S. E. Miller and A. C. Beck, PIRE, 1953, v. 41, no. 3, 348 and by A. P. King and G. D. Mandeville, BSTJ, 1961, v. 40, no. 5, 1.323), but the authors claim that this is the first complete analysis of the phenomena that occurs during the course of the measurements. The method is based on feeding a pulsed signal from a generator through a weak-coupling diaphragm into the tested line, which is shorted on

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#### ACCESSION NR: AP4040748

the other end by a moving plunger, and letting the signal circulate in the line. The lesses are regarded as due to two principal factors — coupling between the H<sub>01</sub> mode and the parasitic waves generated on line inhomogeneities, and dispersion distortion of the pulse. It is shown how variation of the line length (by means of the plunger) changes the coupling between the various parasitic waves and the fundamental (H<sub>01</sub>) mode, and causes a corresponding periodic variation in the losses. This process is obviously dependent on the frequency (pulse duration). Reduction in the pulse duration facilitates the measurements, but the shorter the pulse the higher the dispersion distortion. A procedure for selecting the optimal pulse duration is indicated. Orig. art. has: 3 figures and 12 formulas.

ASSOCIATION: None

SUBMITTED: 15Jul62

DATE ACQ:

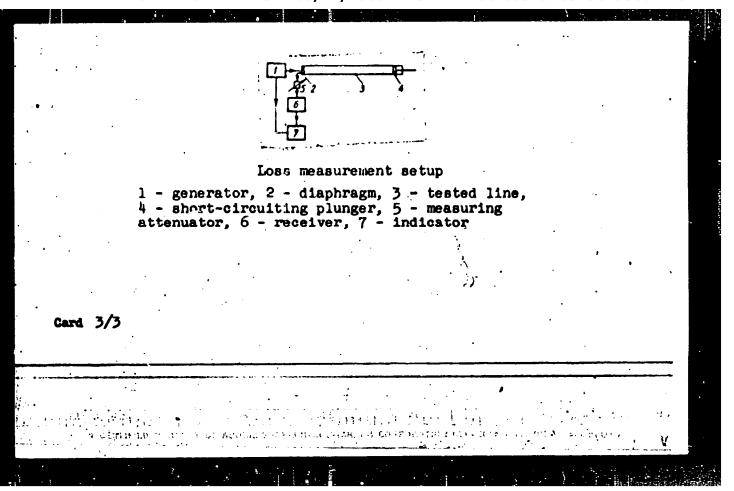
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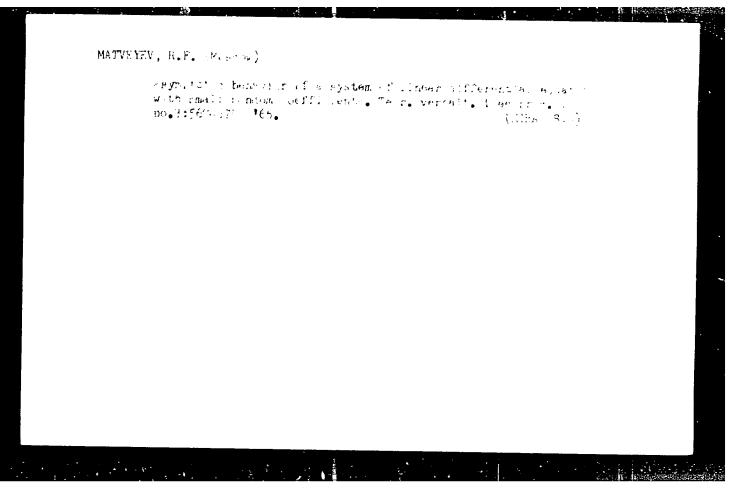
SUB CODE: EC

NR REF SOV: 001

OTHER: 005

Card 2/3





ACC NR: AP6036369 SOURCE CODE: UR/0109/66/011/011/1960/1966

AUTHOR: Matveyev, R. F.

ORG: none

TITLE: Analysis of the passage of waves through a nonhomogeneous medium

SOURCE: Radiotekhnika i elektronika, v. 11, no. 11, 1966, 1960-1966

TOPIC TAGS: electromagnetic wave, electromagnetic wave refraction, waveguide, confocal lens line, wave conversion loss, refraction coefficient

ABSTRACT: Theoretical methods for investigating the propagation of electromagnetic waves along a confocal lens line are described which take into account the effect of the external medium (i. e., the coefficient of refraction of the medium is assumed to the variable). An expression is obtained for the field of the basic wave after its passage through a large number of lenses. Conversion losses in the basic wave (during transformation into other waves) are computed on the assumption that the variation in the refraction coefficient is random. Orig. art. has:

[SP]

SUB CODE: 20/SUBM DATE: 08Jun65/ORIG REF: 005/OTH REF: 002/

Cord 1/1

# MATVEYEV, R.I., kapitan

Tubes with a secondary electronic emission. Vest. protivovozd. obor. no.7:68-70 Jl '61. (MIRA 14:8)

(Electron tubes)

ZAYTSEV, A.P., inshener-podpolkovnik; MATVEYEV, R.I., kapitan tekhnicheskov slushby, voyennyy tekhnik pervogo klassa

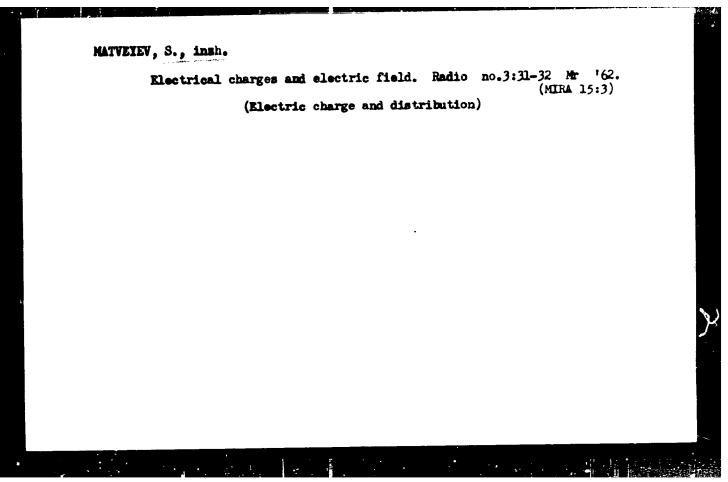
They made it themselves. Vest.Vozd.Fl. no.8:34 Ag '61.

(MIRA 14:8)

# MATVEYEV, R.P.

Wider spacing is necessary to accelerate the growth of planted trees. Put i put.khoz. 5 no.6:29-30 Je 61. (MIRA 14:8)

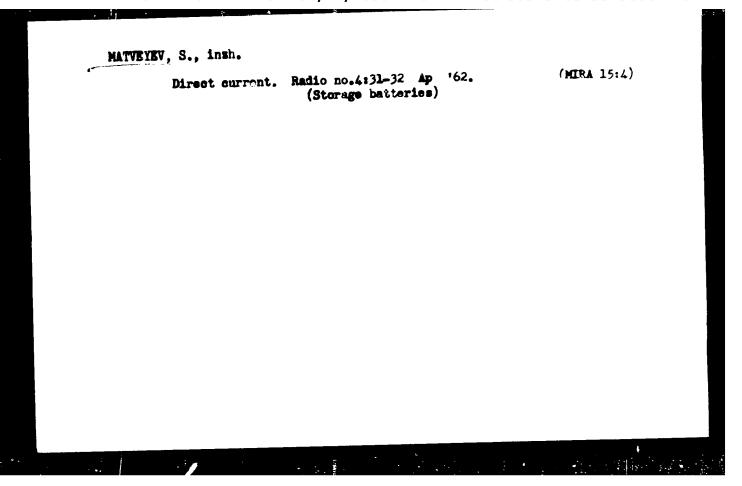
1. Nachal'nik otdela zashchitnykh lesonasazhdeniy Tuzhno-Ural'skoy dorogi. (Tree planting)



ALIMOV, V.A., assistent; POLYAKOVA, G., student; MANULKIN, A., student; MATVEYEV, S., student

Atherosclerosis according to autopsy data of clinics of the Tashkent State Medical Institute collected during 12 years (1949-1960). Med. zhur. Uzb. no.4:51-54 Ap '63. (MIRA 17:4)

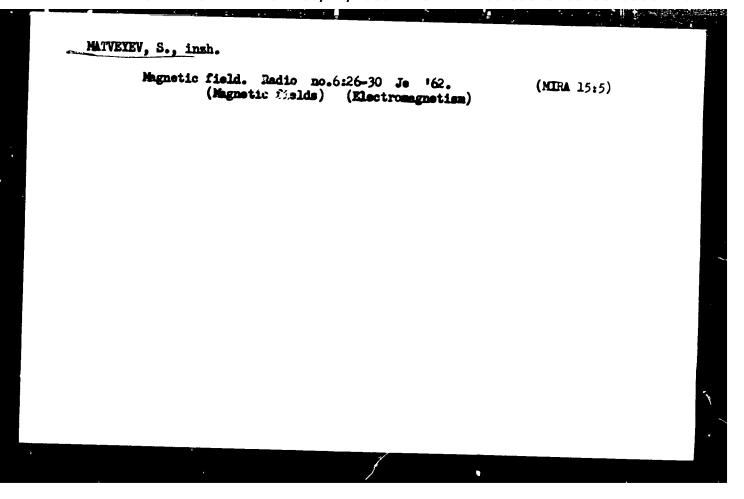
1. Iz kafedry patologicheskoy anatomii (zav. - prof. G.N. Terekhov) Tashkentskogo gosudarstvennogo meditsinskogo instituta.



MATVEYEV, S., insh.

Direct current and the magnetic field. Radio no.5:28-32 My (MIRA 15:5)

'62. (Magnetic fields) (Electricity)



S. D. Matveyev

Colig. 173

Mining Mechanical Engineering (Gornaya Mekhanika) Pod Red. V. D. Terpigoreva I. Moskva, Ugletekhizdat, 19
V. Illus., Diagrs.
Collection of Articles From The English and American Press Published Between 1927-1953.
Lib. Has: v.6.

THEPIGORE'A, Vere Dmitriyevna; MATTEYEV, Sergey Dmitriyevich; ZAVARITSKAYA,
M.rianna Aleksandrovna; GLEUTA, Te.Z., otvetsvenny redaktor;
V.HODHEVA, I.V., redaktor isdatel'stva; ALADOVA, Ye.I., tekhnicheskiy
redaktor

Geology. Moskva, Ugletekhizdat [Text in English with EnglishPussian dictionary.] Pt.l. 1956. 73 p. (MLRA 10:2)

(Geology-Terminology)

TERPIGOREVA. Vera Dmitriyevna; MATVEYEV. Sergey Dmitriyevich; MEL'EUMOV,
L.G., otvetstvennyy redaktor; ERODEVA, 1:V., redaktor izdatel'stva;
ALODOVA, Te. I., tekhnicheskiy redaktor

Electricity, Moskva, Ugletekhizdat. [with English-Russian dictionary] No. 3. 1956. 88 p.

(Electricity)

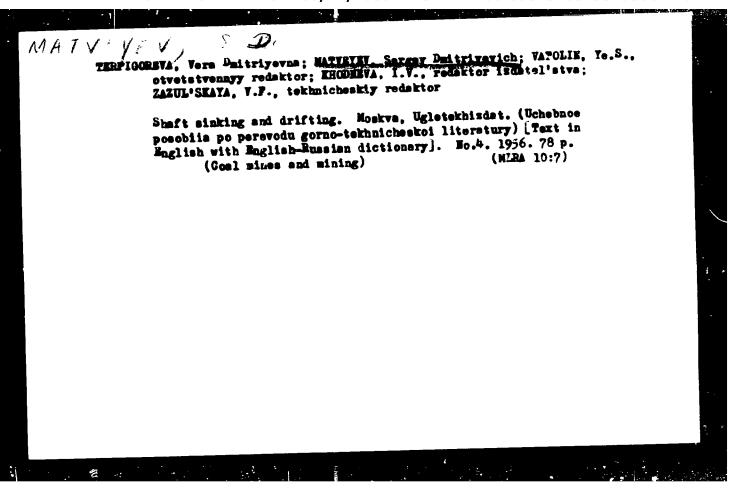
TERPIGOREVA, Vera Dmitriyevna; MATVEYEV Sergey Dmitriyevich; SUMTIN, G.G., otvetstvennyy redaktor; ALADOVA, Ye.I., tekhnicheskiy redaktor

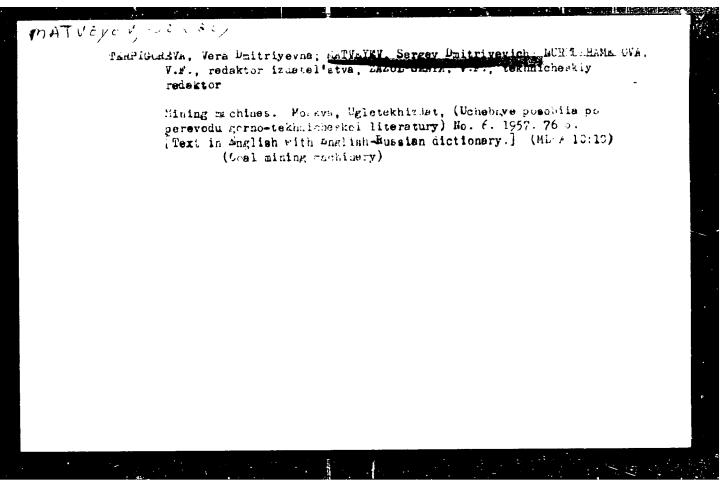
[Nining engineering; a textbook for translating mining engineering literature from English to Russian] Gornaia mekhanikz; uchebnoe posebie po perevodu s angliiskogo na russkii iasyk gornotekhnicheskoi literatury. Moskva, Ugletekhisdat. Vol.3. 1956. 326 p.

(Mining engineering)

(MIRA 9:9)

(English language--Translating)





KOSMIESKIY, B.M., kand.ekon.nauk; MATVEYEV, S.D.; TERPIGOREVA, V.D.;
VORDE'TEV, B.M., kand.tekhn.nauk; otv.red.; MEL'EUMOV, L.G.,
gorn.insh., otv.red.; GADZHINSKAYA, M.A., red.-isd-va;
ALADOVA, Ye.I., tekhn.red.

[English-Russian mining engineering dictionary] Anglo-russkii
gornotekhnicheskii slovar'. Pod red. B.M.Vorob'eva i L.G.Mel'kumova. Moskva, Ugletekhisdat, 1958. 478 p. (MIRA 11:12)

(Mining engineering--Dictionaries)

(English language--Dictionaries--Russian)

ECIPAROV, V.A., MATVEYEV, S.F.

Automatic measurement of the flow of weak nitric acid and conversion to composition by weight. Inimsprom. 2:148-151
My '60.
(MIRA 13:7)
(Bictric acid) (Automatic control) (Flow meters)

MATVEYEV, S.F.; KOLPAKOV, V.A.; REBITSKIY, A.F.

Developing a method of automatic control of nitro-oleum composition. Khim. prom. no.8:596-600 Ag '63. (MIRA 16:12)

MATVEYEV, Semen Grigor'yevich; ROGITSKIY, S.A., doktor tekhn. nauk, retsenzent; ANDREYEV, Ye.T., kand.teknn.nauk, retsenzent; LEVIN, L.I., retsenzent; SHMELEV, A.I., red. izd-va; BOLDTREVA, Z.A., tekhn. red.; PROZOROVSKAYA, V.L., tekhn. red.

[Mine buildings] Rudnye sooruzhenika. Moskva, Gosgortekhizdat, 1962. 579 p. (MIRA 15:7)

The state of the s

MATVEYEY, S.I.

. 2. 3

Eliminate defects in providing living space for Moscow residents.

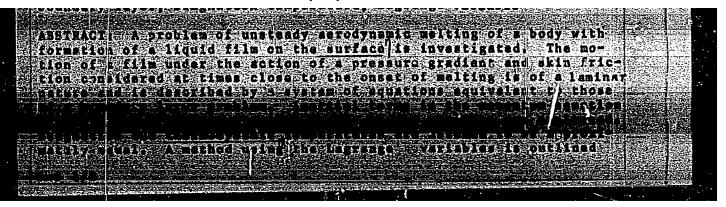
Go. M. 1986. 35 no.8:16-18 Ag 61. (MIRA 14:8)

1. Zamestitel\* zaveduyushchego Otdelom gorodskogo khozyaystva Moskovskogo gorodskogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza.

(Moscow--Housing)

L 8467-65 - EWF(1)/EPA(b)/EWT(m)/EPF(e)/FCS/EWG(v)/EPR/EWP(j)/T/EWP(e)/FCS(k),

EWF(b)/EWA(1) - Do-14/Po-14/Po-15/Po-14/Pr-14/Po-14/Pr-14/Po-14/Pr-14/Po-14/Pr-14/Po-14/Pr-14/Po-14/Pr-14/Po-14/Pr-14/



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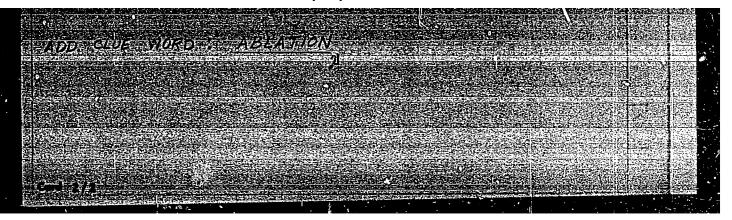
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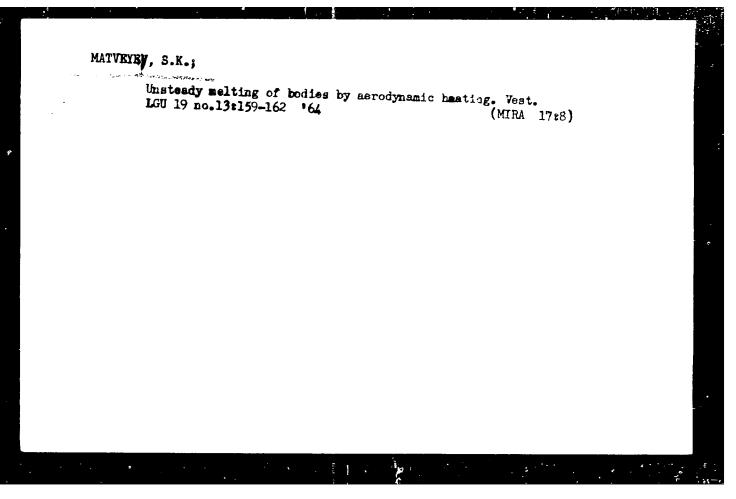
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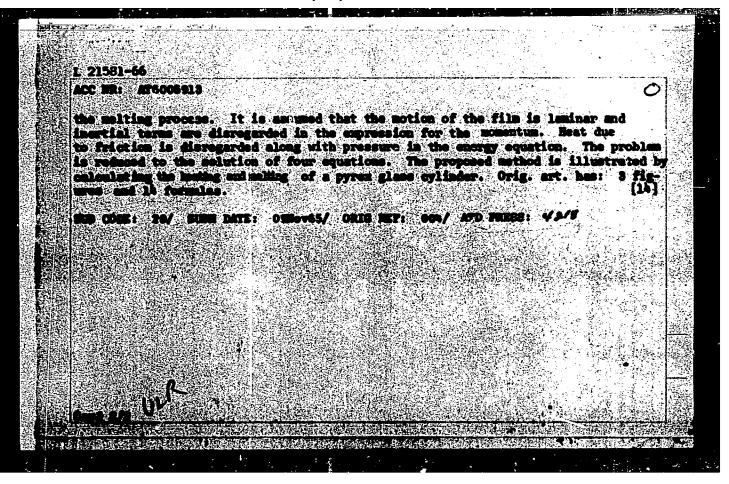
MATVEYEV, S. K.

"Unsteady flow of a liquid film formed by melting."

report submitted for 2nd All-Union Conf on Heat & Transfer, Minsk, 4-12 May 1964.

Sci Res Inst of Mathematics & Mechanics, Leningrad State Univ.

2158]-66 EMI(1)/EMP(a)/EMI(a)/EMP(w)/EMA(d)/I-2/EMP(t)/ETC(n)-6/EMA(1) ID/MM CT:MET ETGGGG18 GS/RM SOURCE COME: UN/0000/65/000/000/0209/0215 ACTUAL BRESSELL GE/RA AUTHOR: Batveyer, S. K. TITLE WALL, te flow of a liquid flim formed during melting SOURCE: Peplo- i massoperence. t. II: Teplo- i massoperence pri vzaimodeystvii tel a potokent shidtostey i gasov (Neat and mass transfer. v. 2: Neat and mass transfer in the interaction of bodies with liquid and gas flows). Minek, Nauka i tekhnika, 1965. 209-215 TOPIC TAGE liquid film, laminar boundary layer, liquid flow, fluid surface, molting ABSTRACT The author considers melting of a solid subjected to serodynamic heating e melting begins, a liquid film is formed which is moved by the pressure gradient skin triggies. The equations of motion for this file are equivalent to the 



ACC NR: AP7002914	SOURCE CODE: UR/0170/66/011/006/0730/0736
AUTHOR: Matveyev, S	•
ORG: none	
TITLE: An approxima	e calculation of unsteady ablation of glassy materials
SOURCE: Inzhenerno-	izicheskiy zhurnal, v. 11, no. 6, 1966, 730-736
transfer, ablative management ABSTRACT:	ic aerodynamics, ablation, ablative coating, ablative heat terial, aerodynamic heating, heat transfer rate coefficient
heating is consid	red. An approximate integral method is outlined for
calculating the si is approximated by	gnificant ablation parameters. The temperature distribution the exponential function of v and the viscosity is given
by $\mu = exp [(a/T)]$ transfer rates an	+ b)]. The method is applied to determining heat surface temperature at the stagnation point of a blunted
body. The difference energy is used to	ntial equation derived from the equation of conservation of calculate the surface temperature of the melted film.
A comparison of the	e numerical results obtained by this method with the exact isfactory agreement. It is said that this method may be
Card 1/2	UDC: 536.421.1

C NR: AP7002914	
used when similar solutions are not valid and successfully applied to ca tions of unsteady melting of a glass shield not only in the stagnation r	
but also on the surface of the body. Orig. art. has: I figure and 17 f	ormulas.
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rd 2/2	

Redevelopment of the camper of Moscow. Gar. khoz. Mosk. 35 no.3:22-31
Mr '61. (Moscow—City planning)

MATVEYEV, S.M., arkhitktor; STRAVIENAMA, G.A., inzh. ekonomist;

SEGEDINGV, A.A., inzh., SHAPPAR, V.L., inzh.; TROFINGV, V.G.,
zhurnalist; YNUSRACOV, N.F., nauchnyy red.; MYASOYEDOV, B., red.;
SHLYK, M., tekhn. red
[The new boundaries of Roscow]Moskva v novykh granitsakh.
Moskva, Mosk. rabochii, 1962. 151 p. (MIRA 15:7)

1. Institut general'nogo plana g.Moskvy (for Matveyev,
Stravinskaya, Segedinov, Shafran Trofimov)

(Moscow Guidebooks)

M+ TV EyeV, S.M.

. 1(5)

PHASE I BOOK EXPLOITATION

sov/3265

Moscow. Aviatsionnyy tekhnologicheskiy institut

Mekotoryye voprosy aerodinamiki i dinamiki samoleta (Some Problems in Aerodynamics and Dyramics of Aircraft) Moscow, Oborongiz, 1959. 11 p. (Its: Trudy, vyp. 42) 2,100 copies printed.

Additional Sponsoring Agency: RSFSR. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya.

Ed.: (Title Page): S.I. Zonshayn, Doctor of Technical Sciences, Professor; Managing Ed.: A.S. Zaymovskaya, Engineer.; Ed. of Publishing House: S.I. Vinogradskaya. Tech. Ed.: V.P. Rozhin.

PUNPOSE: This collection of articles is intended for the engineering and technical personnel of design offices and scientific-research organizations. It may also be used by students of aeronautical vuzes, specializing in the field of aircraft construction.

COVERAGE: This collection of articles contains some results of scientific research performed by the Aerodynamics and Design of Aircraft Department of MATI Card 1/6

Some Problems in Aerodynamics (Cont.)

sov/3265

(Moscow Aviation Technology Institute) during the period 1955 - 1957. The collection considers a number of problems in wing theory for three-dimensional flow and in the dynamics of aircraft, and also methods for research conducted at the initial stages of design and configuration of aircraft. A report by V.T. Dubasov presents a variational method for approximate determination of the velocity field for potential unsteady, compressible and incompressible air flow about bodies. S.I. Zonshayn considers the methods of research performed to determine rational dimensions of aircraft during the initial design stages. The problem is solved in a general formulation, but the obtained results are applied to particular problem for instance, to the calculation of optimum wing loads. In a report by N.Ya. Fat: itent, the theorem regarding the lifting force of a wing, given by N.Ye. Zhukovskiy, is generalized for the case of a rotational threedimensional flow and a compressible medium. A formula is given for calculating force arising from the mutual interaction of two flows. The results obtained are used for calculating the effect of the accompanying jet on the lift coefficient of the wing and for calculating the load distribution along the spen in the region bordwing on the wing tip. A report by S.M. Matveyev deals with one of the important problems in aircraft dynamics - the loop - first investigated by N.Ye. Zhukovskiy. The problem is solved for the mathematically simplest case, namely a loop with uniform turning of the flight path. The kinematic and dynamic analysis

Card 2/6

Some Problems in Aerodynamics (Cont.)

SOV/3265

of the motion of an aircraft is developed up to the calculation of the characteristic of the loop. The formulas obtained turn out to be universal, that is, applicable to any aircraft. A report by A.A. Tupolev makes certain recommendations regarding the configuration of high-speed aircraft. No references are given.

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DUBOVIK, V.N., st. prepodav.; MAMIN, A.U.. kand. geol.-miner.

neuk, dots.; OTTO, P.I.; RUMYANTSEVA, A.Ya., kand. geogr.

nauk, ispolnyayushchiy obyazamosti dots.; Skakgin, I.A.,

st. inzh.; MOSKALEV, A.F.; KOLESNIKOV, B.P., prof., doktor

biol. nauk, rektor; OKOROKOV, V.I., kand. biol. nauk, dots.;

KLIMENKO, R.A.; STARIKOVA, L.A., assistent; SHUMILOVA,

V.Ya., assistent; MAKSIMOVA, Ye.A., dots.; KIRIN, F.Ya.,

kand. geogr. nauk, dots.; KUZNETSOVA, A.V., red.; MATVALEV,

S:M., red.; MOROZOV, V.K., red.; RUTKOVSKIY, I.M., red.;

TYAZHEL'NIKOV, Ye.M., red.

[Nature of Chelyabinsk Province] Priroda Cheliabinskoi oblasti. Cheliabinsk, IUzhno-Ural'skos knizhnoe izd-vo, 1964. 241 p. (MIRA 18:7)

1. Kafedra geografii Chelyabinskogo pedagogicheskogo instituta (for Dubovik, Mamin, Rumyantseva, Kirin). 2. Nachal'nik geologicheskogo otdela Chelyabinskogo geologorazvedochnogo tresta (for Otto). 3. Chelyabinskoya gidrologicheskaya stantsiya (for Seregin). 4. Nachal'nik pochvennoy partii Chelyabinskoy zemleustroitel'noy ekspeditsti (for Moskalev). 5. Institut biologii Ural'skogo filiala AN SSSR (for Kolesnikov). 6. Kafedra zoologii Chelyabinskogo pedagogicheskogo instituta (for Ohorokov, Starikova, Shumilova). 7. Chelyabinskiy rybnyy trest (for Klimenko).

ZARZHEVSKIY, Noy Isaakovich; BERDNIKOV, Sergey Fedorovich; MATVEYEV, S.M., red.

[Chelyabinsk Tracter Plant] Cheliabinskii traktornyi zavod. Cheliabinsk, Cheliabinskoe knizhnoe izd-vo, 1962. 118 p. (MIRA 17:9)

MATVEYEV S. N. X.

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KRASIL'NIKOV, S.N., zasl. deyatel' nauki prof., doktor voyennykh nauk, general-leytenant, red.; MATVEYEV, S.P., inzh.-polkovnik, red.

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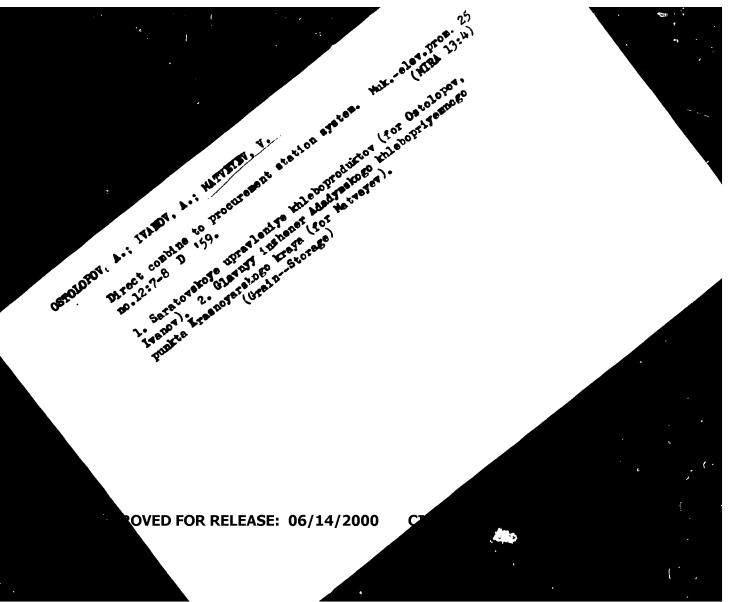
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MATVEYEV, V.; ZININ, I.

Operation of drying-cleaning columns. Mukh.-elev. prom. 24 no.4: 22-23 Ap \*58. (MIRA 11:5)

1. Adadymskiy elevator, Hasarovskiy rayon, Krasnoyarskogo kraya (for Matveyev). 2. Kurganskiy elevator (for Zimin).

(Grain—Drying)



OSTOLOPOV, A.; IVARDV, A.; MATVEYEV, V.

Direct combine to procurement station system. Muk.-elev.prom. 25 mo.12:7-8 D '59. (MIRA 13:4)

1. Saratovskoye upravleniye khleboproduktov (for Ostolopov, Ivanov). 2. Olavnyy inchener Adadymskogo khlebopriyemogo punkta Krasnoyarskogo kraya (for Matveyev). (Grain-Storage)

# MATVEYBY, Y.

Automatic device for periodic starting and heating up of engines. Avt. transp. 36 no.10:14-16 0 '58. (MIRA 13:1)

1. Glavnyy inshener avtotransportnoy kontory tresta "Tuymasaburneft".

(Automobiles--Engines--Cold weather operation)

DAVIDOVICH, L., kand.tekhn.nauk; MATVEYEV, V., ingh.

Standard designs of individual buildings for garage units, Avt.
transp. 36 no.8:16-19 Ag '58.
(Gerages)

(Gerages)

MATVETEV, V., insh.; SHIGIN, I.

Large precast reinforced concrete industrial building.
Stroitel' no.2:3-5 F '60. (MIRA 13:5)

1. Proisvodstvenno-tekhnicheskoye otdeleniye tresta No.2,
Voronesh (for Natveyer). 2. Glavnyy inshener spetsuchastka
UNR-570 tresta Stal'konstruktsiya (for Shigin).

(Voronesh--Industrial buildings)

(Precast concrete construction)

Optical bleaching, Sov. fote 19 nc.12:36 D '59. (MIRA 13:3)
(Bleaching agents)
(Photography—Equipment and supplies)

MATVEYEV, V.

AID P = 3128

Hall Control of the C

Subject : USSR/Aeronautics

Card 1/1 Pub. 58 - 14/24

Author : Matveyev, V.

Title : Aircraft model with fuselage and rubber band propulsion

Periodical: Kryl. rod., 10, 18, 0 1955

Abstract : The author gives characteristics, flight performance and diagrams

of an aircraft model of his own construction.

Institution: None

Submitted : No date

Matueyes, V.

AID P - 4470

THE REAL PROPERTY.

Subject

: USSR/Aeronautics - Aircraft (models)

Card 1/1

Pub. 58 - 7/10

Author

: Matveyev, V.

Title

: Rubber-band Driven Models of Airplanes

Periodical

: Kryl. rod., 2, 14-15, F 1956

Abstract

: The article discusses the two different types of rubberband driven motors presently used in the Soviet Union, and the aerodynamic properties of various forms of wings.

Preferences of the author are indicated. Some

recommendations are made as to the design of the models, fuselage, undercarriage, and propellers. The conditions of stability of the models in flight are analyzed and advice given as to materials to be used in their con-

struction. Two photos.

Institution: None

Submitted : No date

AID P - 5556

Subject

: USSR/Aeronautics - Model building

Card 1/1

Pub. 58 - 15/20

Author

: Matveyev, V., Sportsman 1/c

Title

: Rubber-band motors for aerplane models

Periodical

: Kryl. rod., 1, 24-25, Ja 1957

Abstract

: An analysis of the properties of subber-band motors of

various types, and practical advices as to the pre-

caration, use, and maintenance of these motors.

Institution

None

Submitted : No date